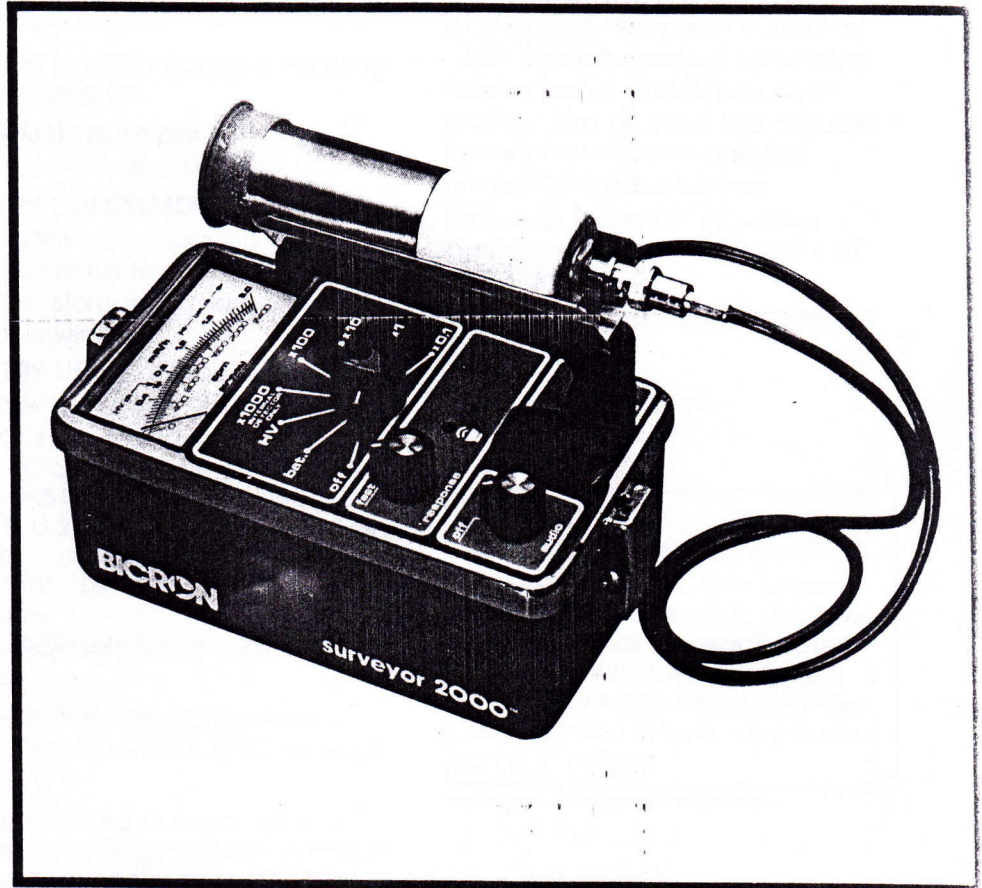


surveyor 2000

Portable Survey Meter

Features

- SINGLE 9-VOLT BATTERY
- EXCLUSIVE HV CHECK
- VARIABLE RESPONSE TIME
- WIDE-VIEW METER
- ANTI-SATURATION CIRCUIT
- DEAD TIME COMPENSATION
- UP TO 2000 mR/h



Shown with audio option

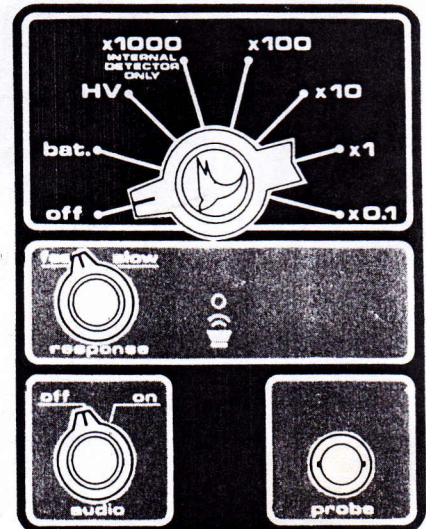
GENERAL: The **surveyor 2000 model** is an ergonomically designed survey meter which embodies state-of-the-art electronics and a unique concept in rugged construction.

All components are pretested to assure maximum reliability. The high-torque, rugged meter provides an easy-to-read display.

The utilization of an energy-compensated internal GM tube for the high range (2000 mR/h), combined with the capability to accept all standard external GM probes makes this a very versatile survey meter.

The HV check is an exclusive safety test to verify operation of the detector power supply. Dead time compensation provides a truly linear response on all ranges and the anti-saturation circuit protects against over-range fold-back.

Patent pending



Shown with audio option



BICRON®

Specifications

RADIATION DETECTED: Alpha, beta, gamma with external probe; gamma and x-ray with internal detector

DETECTOR: GM tube, internal; choice of GM probes external

RANGE: 0-2000 mR/h in 5 linear ranges, 0-240,000 cpm

HIGH VOLTAGE: Electronically stabilized, factory set at 900 V

HV TEST: Exclusive self test to verify detector HV power supply

CONNECTOR: MHV

ACCURACY: Within 15% of reading for ¹³⁷Cs between 20% and 100% of full scale (internal detector)

ENERGY RESPONSE: ±20% from 40keV to 1.2MeV (internal detector)

WARMUP TIME: None

SATURATION: Typically > 1000 R/h with exclusive anti-saturation circuit on all ranges

RESPONSE TIME: Switch-selectable, optimized for each range, 0-90% of final reading as follows:

Range	Time	
	Fast	Slow
X0.1	6 sec.	25 sec.
X1	2 sec.	6 sec.
X10	1 sec.	3 sec.
X100	<1 sec.	1 sec.
X1000	<1 sec.	1 sec.

TEMPERATURE: Operational from -40° to +60°C

HUMIDITY: < 5% change in reading from 10-95% RH

CONTROL: Eight-position rotary switch as indicated

BATTERY COMPLEMENT: Single 9-volt (MN1604 or equal). The additional battery holder may be used as storage of spare or parallel-wired

BATTERY LIFE: > 100 hours or > 200 hours with parallel option

DISPLAY: Ruggedized, recessed, high-torque 1mA meter with 3.35 inch (8.51cm) scale marked 0-2 mR/h, 0-2400 cpm, 'Bat. ok', 'HV ok' Meter protected by impact-resistant Lexan® polycarbonate window

GEOTROPISM: Within ±2% of full scale

SHOCK: 100g per lightweight machine of MIL-STD 202C, method 202B

VIBRATION: 5g in each of three mutually orthogonal axes at one or more frequencies from 10-33Hz

CONSTRUCTION: Splash-proof, shock proof, two-piece all-metal case, scratch-resistant laminated control panel and Bicron Kleen-Krome® trim on case top, durable black polyurethane painted handle and case bottom

SIZE: 4.25 x 8 x 6.8" including handle and probe clip (10.8 x 20.3 x 17.3 cm)

WEIGHT: 2.2 lbs. (1 kg), excluding probe

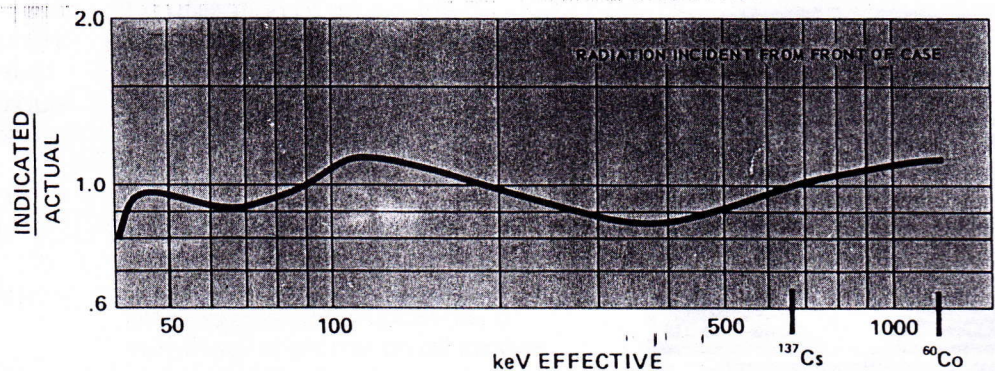
Option

AUDIO OPTION: When specified, a built-in speaker, with panel mounted on-off switch, provides audible "click" for each detector pulse. With the speaker off, an audible alarm sounds (if desired) when meter is > full scale on any range.

Manufacturer reserves right to alter specifications

Typical Energy Response

INTERNAL DETECTOR ONLY



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